

CLAIMS

We claim:

1. A method for providing information services to a wireless device roaming in a wireless system, comprising the steps of:
5 receiving normal network message traffic information;
extracting roamer information from the normal network message traffic information; and
selecting a message to be transmitted to the wireless device based on the extracted roamer information.
2. The method of Claim 1, wherein the step of receiving normal network message traffic information comprises tapping a connection between a Visitors' Location Register and a Mobile Switching Center in the wireless system.
3. The method of Claim 1, wherein the step of receiving normal network message traffic information comprises receiving a copy of messages transmitted between a
10 Visitors' Location Register and a Mobile Switching Center.
4. The method of Claim 1, wherein the step of receiving normal network message traffic information comprises obtaining the normal network message traffic information in messages received from a Visitors' Location Register and responses made to inquiries directed to a Mobile Switching Center and the Visitors' Location Register.
- 20 5. The method of Claim 1, wherein the step of receiving normal network message traffic information comprises using an IS-41 monitoring device to monitor IS-41 traffic and extracting roamer information messages.
6. The method of Claim 1 wherein the extracted roamer information

comprises an ESN, MIN 1, MIN 2, and an SID of the wireless device's home network.

7. A method for providing information services to a wireless device roaming in a wireless system, comprising the steps of:

obtaining normal network message traffic information from the wireless system,

and transmitting the normal network message traffic information to a protocol converter;

in the protocol converter, extracting roamer information from the normal network message traffic information, and

converting the roamer information into a protocol analyzer format;

transmitting a query to a Mobile Switching Center requesting information regarding the wireless device's serving cell;

receiving information regarding the wireless device's serving cell;

combining the information regarding the wireless device's serving cell with the converted roamer information to form a roamer trigger;

transmitting the roamer trigger to a protocol analyzer;

in the protocol analyzer, extracting specific information pieces regarding the wireless device;

transmitting the extracted specific information pieces to a data interpreter;

in the data interpreter, translating the specific information pieces into format needed to determine a message to be sent to the wireless device; and

transmitting the specific information pieces to the message selection and delivery system.

8. The method of Claim 7, wherein the step of obtaining normal network

message traffic information comprises tapping a connection between a Visitors' Location Register and a Mobile Switching Center in the wireless system.

9. The method of Claim 7, wherein the step of obtaining normal network message traffic information comprises receiving a copy of messages transmitted between a
5 Visitors' Location Register and a Mobile Switching Center.

10. The method of Claim 7, wherein the step of obtaining normal network message traffic information comprises obtaining the normal network message traffic information in messages received from a Visitors' Location Register and responses made to inquiries directed to a Mobile Switching Center and the Visitors' Location Register.

11. The method of Claim 7, wherein the step of obtaining normal network message traffic information comprises using an IS-41 monitoring device to monitor IS-41 traffic and extracting roamer information messages.

12. The method of Claim 7, wherein the wireless device is a cellular telephone.

13. The method of Claim 7 further comprising causing the system to choose a message to transmit to the wireless device based on the specific information pieces and transmitting the message to the wireless device.